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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,877	07/31/2003	Jes Tougaard Gram	CU-3620	1811
26530 7590 08/23/2007 LADAS & PARRY LLP 224 SOLITH MICHIGAN AVENUE		EXAMINER		
224 SOUTH MICHIGAN AVENUE			NGUYEN, THUKHANH T	
SUITE 1600 CHICAGO, IL	60604		ART UNIT	PAPER NUMBER
			1722	
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	•		08/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summary	10/631,877	GRAM, JES TOUGAARD			
omoc Addon Gummary	Examiner	Art Unit			
The MAIL ING BATE of this account of the	Thu Khanh T. Nguyen	1722			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versions of the provision of the provi	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	DN. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>06 Ju</u>	<u>une 2007</u> .	•			
					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	453 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 1-4 and 11-23 is/are pending in the all 4a) Of the above claim(s) 1-4 is/are withdrawn 5) □ Claim(s) is/are allowed. 6) ☑ Claim(s) 11-23 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b)⊡ objected to by the drawing(s) be held in abeyance. S tion is required if the drawing(s) is o	ee 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been received in CPCT Rule 17.2(a)).	ation No ved in this National Stage			
		•			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 11-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Glover et al (4,744,741).

Glover et al teach a combined mold carrier and linkage apparatus, comprising a first mold plate (11) having a first molding profile (18) and a second mold plate (13) having a second molding profile (18), and a plurality of middle parts (17) with middle profiles (20) wherein the middle parts (17) are turntable between the first mold plate and the second mold plate, wherein the first, second mold plates and the middle parts form a plurality of mold cavities (30), wherein the mold plates (11, 13) and the middle parts are separated from each other during loading/unloading process (Fig. 3) and attached to each other during molding process (Fig. 2).

In regard to claims 12-13, wherein the middle parts can be rotated about 180 in a vertical direction (col. 5, lines 22-29).

In regard to claim 14, wherein the middle part (17) having back profile, or mold cavities on both sides (col. 5, lines 22-24).

In regard to claim 15, wherein the middle part further includes an air gap (28) for heat insulating between the middle part and the mold plate (19; col. 7, lines 53-60).

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In regard to claims 16-17, wherein the mold plates, or the front and back part, includes mold profiles, or mold cavities (Fig. 2, 18, 33).

In regard to claims 18 and 20, wherein the apparatus further comprises an ejector pin, or a coupling pin (24) for securing and detaching the middle part from the mold frame (col. 6, lines 53-65).

In regard to claims 21-23, wherein the apparatus is capable of using with different type of materials (col. 2, line 56 to col. 3, line 2). "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim." Ex parte Thibault, 164 USPQ 666, 667 (Bd. App. 1969). Furthermore, "[i]nclusion of material or article worked upon by a structure being claimed does not impart patentability to the claims." In re Young, 75 F.2d 996, 25 USPQ 69 (CCPA 1935) (as restated in In re Otto, 312 F.2d 937, 136 USPQ 458, 459 (CCPA 1963)). MPEP § 2115.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Glover et al ('741) as applied to claims 11-18 and 20-23 above, and further in view of Watanabe ('5,196,213).

Glover et al fails to disclose a ball screw ejector mechanism.

Watanabe, however, discloses that ball-screw mechanism ejector mechanisms are known in the art for the purpose of taking molded articles off and out of mold parts. (col. i, ii. 13-36).

It would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to modify Glover et al to have the middle part further comprise a ball-screw ejector mechanism because such structures are known to allow for the discharge of molded articles from the mold parts as suggested by Watanabe in order to improve the removal of the molded articles from the mold cavities.

5. Applicant's arguments with respect to claims 11-23 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Khanh T. Nguyen whose telephone number is 571-272-1136. The examiner can normally be reached on Monday- Friday, 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gupta Yogendra can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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